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## GASOLINE CONSUMFTION RATES FOR AUTOMOBILES AND TRUCKS

The tabulated consumption rates of standard automotive gasoline and lubricants, indersed by a decree of the Government, are the law not only for automotive managements and their directors, but also for each driver beginning with his very first days behind the wheel.

# 1. TRANSPORT MOTOR VEHICLES OF DOMESTIC MAKE

Designation of Truck	Gasoline consumption
Destigned 0.20.	rate per 100 kilo-
	meters (in liters)
CAZ-A	12.0
GAZ-AA GAZ-MM	20.5
GAZ-AAA	25.0
GAZ M-1, M-415 (Pickup)	14.5
	13.5
GAZ M-20 CAZ 60 (Caterpillar Traction)	57.0
	15.0
GAZ, 67	17.0
GAZ M-1173	17.0
GAZ-61.	15.0
GAZ-64	26 <b>.</b> 5
GAZ-51	20•5
GAZ-55 and 03-30 (Bus)	21.0
GAZ C-1	
GAZ-05-193 (Bus)	27.0
ZIS-101	25 <b>.</b> 5
ZIS-5 and 8	34.0
ZIS 110	27.0
zis-16	37.0
ZIS-5 (Dump, with engine-operated power, take-off unit)	35•0
ZIS-6	41.0
zis-10	41.0
ZIS-33 (on Wheels)	43.0
ZIS-33 (on Caterpillars)	85.0

#### TRANSPORT MOTOR VEHICLES OF DOMESTIC MAKE (continued)

ZIS-42 (half-track)	971	60.0	
Same, with ZIS-5 engine	•.	55.5	
ZJS-32	NI	38.0	

## 2. TRANSFORT MOTOR VEHICLES OF FOREIGN MAKE

Make and Model of Truck	Gasoline consumption
	rate per 100 kilo-
	meters (in liters)
Ford-6 (208T and G8T)	26•5
Studebaker US 6 x 4 and 6 x 6	38.5
International M-5-6	39.0
CMC (CCKW-325 and 353, AFWX-354, SCKWX-353)	27 •5
Dodge WF-32 and WC-51	26.5
Dodge T-110-L-5	27.5
Dodge T-203-B	36•0
Chevrolet 3116 (4409)	26.5
Chevrolet C-7107	29•5
Willis MB and Bantam BRC	14.0
Studebaker (Tractor with Trailer)	50.0

#### 3. FOREIGN MAKE PASSENGER AUTOMOBILES

Passenger Automobiles with a	Gasoline consumption
Piston Displacement, in liters	rate per 100 kilo-
	meters (in liters)
up to 1.0	7.5
over 1.0 to 1.4	8.5
over 1.5 to 2.0	10.5
over 2.0 to 3.0	13.5
over 3.0 to 4.0	16.5
over 4.0 to 5.0	21. • 0
over 5.0	24.0

#### 4. MOTOR VEHICLES FITTED FOR SPECIAL JOBS

Types of Truck	Gasoline consumption
	rate per 100 kilo-
	meters (in liters)
(a) Street and Road Sweepers: PU-5, PU-7	
sweeper mounted on a GAZ-AA Truck Chassis	43.0
Same as above, with cylindrical brush	
and Snow Flow mounted on YaG-4-6 Truck Chas	sis 75.0
Same as above with cylindrical brush	
and Snow Plow mounted on ZIS-5 Truck Chassi.	s 58.0
(b) Street and Road Sprayers and Washers	
on ZIS-5 Truck Chassis	53.0
on YaG-4-6 Truck Chassis	7.00
(c) Street and Road Sander with Power	
Take-Off from ZIS-5 Engine	37.0
(d) Automatic Asphalt Distributors "Komso-	
molets" Mounted on a YaG Truck Chassis	48.0

Types of Truck	Gasoline consumption
	rate per one hour
	of work, in liters
To operate the bituminous pump of	
the automatic asphalt distributor	9•5
To operate VVK-200 Compressor mounted	•
on ZIS-5 Truck Chassis	25.0
To operate Hoist or Crane mounted on	
ZIS or YaG Truck Chassis	3.0
Byussing	3•5
Types of Truck	Gasoline Consumption
	rate per one opera-
	tion, in liters
To operate screw conveyor mounted on	
ZIS Truck Chassis	1.30 to unload
YaC Truck Chassis	1.50 to unload
To operate the vacuum pumps in	
Tank-Trucks mounted on	
GAZ-AA chassis	0.50 to refill
ZIS-5 chassis	0.80 to refill
YaG-4-6 chassis	1.40 to refill

- 5. The gasoline consumption rates for passenger automobiles and trucks are computed per 100 kilometers of run under average conditions of operation, with the maneuvering at loading and unloading stations taken into account.
- 6. When the automobiles and trucks operate on roads and highways paved with wooden blocks, asphalt, or on tarred roads, gasoline consumption rates are reduced fifteen percent, and on stone-paved roads, ten percent.
- 7. For winter operation (with the prevailing mean temperature below Q degrees Centigrade, gasoline consumption rates may be increased ten percent.
- 8. For truck-trailer operation there is an extra allowance for each ton of freight (including the weight of the trailer itself), provided a full load is carried, as follows:
  - (a) for 2-ton trucks, up to 8 percent
  - (b) for trucks over 2 tons, up to 6 percent
- 9. In the case of new automobiles and automobiles entering service after general overhauling, there is an extra allowance in the gasoline consumption rates for the first 1000 kilometers of about five percent.
- 10. In conditions of extreme northern climate and comparable locations, as enumerated in Item 5 of the Government decree, also in mountainous regions (in excess of 1500 meters above sea level), there is an extra allowance of ten percent.
- ll. When driving lessons are given to beginners, an extra allowance of five percent per each 100 kilometers is authorized.

- 12. Gasoline consumption rates for driving instruction cars are established for one hour of instruction as equivalent to a 10-kilometer run on the basic rate of consumption plus five percent.
- 13. The Councils of Ministers of the autonomous republics, the Oblast (Kray) Executive Committees, and the District Military Soviets and fleets are authorized to grant extra gasoline allowances as follows:
  - (a) Up to ten percent for automobiles and trucks operating within the city limits and making frequent stops, such as buses, mail trucks, collection trucks, and garbage trucks;

    (b) Up to fifteen percent for trucks engaged in snow removal from the highways and airfields.

GASOLINE CONSUMPTION RATES FOR THE TECHNICAL NEEDS OF AUTOMOTIVE TRANSPORTATION EQUIPMENT IN THE WORK OF UNLOADING AND LOADING OF SPECIAL WAREHOUSES AND OF STARTING GENERATOR GAS-OPERATED AUTOMOBILES

- (1) The gasoline consumption rate in the garage per automobileday is not to exceed one and one-half percent of the basic rate per 100 kilometers of run.
- (2) When making adjustments and tuning the engine, the gasoline consumption rate is not to exceed five percent of the basic rate per 100 kilometers of run.
- (3) When road-testing vehicles after average repairs, the gasoline consumption rate is figured on the basis of a 10-kilo-meter run; after complete overhauling -- on the basis of a 30-kilo-meter run.

- (4) When testing the engine on the stand after complete overhauling, the gasoline consumption rate is established on the basis of the nominal plant horsepower rating of the engine as follows:
  - (a) for engines with a compression ratio below 5, 0.30 liters/horsepower
  - (b) for engines with a compression ratio above 5, 0.25 liters/horsepower
  - (5) When loading or unloading vehicles at stations, such as petroleum storage installations, special warehouses and bases, where the fire safety regulations forbid the muffling of the engine, the gasoline consumption rates are established for one hour standstill of the vehicle with engine running on the basis of a 5-kilometer run on the basic rate.
    - (6) For the starting of generator gas-operated vehicles, the gasoline consumption rates per 100-kilometer run are to be

      Summer Winter

not higher than:

for GAZ vehicles

for ZIS vehicles

2.5 liters

2.5 liters

3.5 liters

In the case of instruction vehicles, the above rates may be doubled.

The following prizes are to be awarded for the saving of gasoline:

For drivers -- to the extent of sixty-five percent of the cost of gasoline saved.

For carburetor mechanics -- to the extent of ten percent of the total cost of the gasoline saved by all vehicles under their care.

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For the administrative and technical personnel directly responsible for the saving of gasoline, to the extent of five percent of the cost of the gasoline saved.

Drivers using gasoline above the established rate are to be penalized by withholding from their pay the full cost of the gasoline used above the norm.